OCPP 1.6
Subset Certificate

OCPP 1.6
Subset Certified

Certificate holder:	AddÉnergie Technologies Inc.
Certificate number:	OCA.0016.0214.CS
Product type:	Charging Station
Product designation:	SmartDC OCPP Software version: v8.8.15 Hardware feature set as stated below
Certification date:	December 30, 2022

This certificate attests that the above mentioned product successfully completed certification testing in conformance with the reference specification OCPP 1.6 – Edition 2 with OCPP 1.6 Errata sheet (v4.0 Release, 2019-10-23). The optional features of the protocol covered by this certificate can be found in the abstract of this certificate.

Test cases have been performed as described in the test report referred to below. The results and remarks can be found in the complete test report.

Applied tests	Performed by / on	Document evidence
Conformance testing according to the test specification referenced by the test report	*DEKRA Certification Inc.,* December 30, 2022	*DEKRA_20221230_Test Report_AddEnergie*

The abstract of test report in the Annex is an integral part of this certificate. This certificate is valid from the Certification Date specified above. This certificate is only applicable to the product designation described above and permits the use of the OCPP logo as laid down in the OCA certification logo license agreement on this product only.

This certificate shall neither be tendered nor accepted by any party as a guarantee covering quality of a product which includes OCPP. The Open Charge Alliance, and/or its agents, including, inter-alia, test laboratories, disclaim liability for any damages or losses incurred by the certified company or by any other party resulting from reliance on the results of OCPP certification testing.

For the Open Charge Alliance:

ONOPH CARON
Chairman

Abstract of test report

Test Result Summary

<table>
<tr><td colspan="3">Test Report OCPP 1.6 Certification</td></tr>
<tr><td>Test laboratory:</td><td colspan="2">DEKRA Certification, Inc</td></tr>
<tr><td>Location:</td><td colspan="2">Sterling, VA</td></tr>
<tr><td>Test Report Reference:</td><td colspan="2"></td></tr>
<tr><td>Vendor name:</td><td colspan="2">Flo</td></tr>
<tr><td>Device Under Test:</td><td colspan="2">Charging Station</td></tr>
<tr><td>Communication:</td><td colspan="2">JSON</td></tr>
<tr><td>OCPP Software version:</td><td colspan="2">v8.8.15</td></tr>
<tr><td colspan="3">Test Result Summary for the certified functionalities</td></tr>
<tr><td>Functionalities</td><td>OCPP 1.6 Certification Test Results</td><td>Description</td></tr>
<tr><td>Core</td><td>PASS</td><td>Basic Charging Station functionality for booting, authorization (incl. cache if available), configuration, transactions, remote control.</td></tr>
<tr><td colspan="3">Optional features</td></tr>
<tr><td>Firmware Management</td><td>N/A</td><td>Support for (remote) firmware update management and diagnostic log file download.</td></tr>
<tr><td>Smart Charging</td><td>N/A</td><td>Support for Smart Charging (all profile types, including stacking), to control charging.</td></tr>
<tr><td>Reservation</td><td>N/A</td><td>Support for reservation of a connector of a Charging Station.</td></tr>
<tr><td>Local Authorization List Management</td><td>N/A</td><td>Features to manage a local list in the charging station containing authorization data for whitelisting users.</td></tr>
<tr><td>Remote Trigger</td><td>N/A</td><td>Support for remotely triggering messages that originate from a Charging Station. This can be used for resending messages or for getting the latest information from the Charging Station.</td></tr>
</table>

Performance Measurement Results

Performance Measurement Results				
Name	**PICS value**	**Measured value**		**Description**
OCPP triggered function timeout:	30 sec	1 sec		The response time for when waiting for an OCPP function with its corresponding request message. (Firmware update, Diagnostics and Reboot are excluded from this measurement.)
OCPP response timeout:	30 sec	30 sec		The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	10 sec	1 sec		The response time for the RemoteStartTransaction message.

Test Configuration

Test Configuration	
Vendor	Flo
DUT / SUT	SmartDC v3
Communication	JSON
Type	Charging Station
OCPP Software version	8.8.15
OCTT version	V1.4.3

Hardware feature set	
Feature	**Configuration**
Socket(s) / connector(s)	Multiple
Fixed cable	Yes
Communication technology	Ethernet
RFID readers	Single

Non-OCPP Charge Point Configuration	
Configuration key	**Value**
CustomDisplayCostAndPrice	TRUE
CustomIdleFeeAfterStop	FALSE
DefaultPrice	{\"priceText\":\"^Gratuit\"}
flo:CustomMessage	Assurez-vous du véhicule éteint
flo:WelcomeMessage	Tenez votre carte près du lecteur

All other relevant limits and non-OCPP settings that are relevant for the test laboratory and for the correct functioning of the CSMS:	
Limit / setting	**Value**
Device supports sending milliseconds in timestamps.	Yes

OCPP Charging Station Configuration

Configuration key	Value
AllowOfflineTxForUnknownId	TRUE
AuthorizationCacheEnabled	Not Applicable – NA
AuthorizeRemoteTxRequests	True
BlinkRepeat	Not Applicable – NA
ClockAlignedDataInterval	10
ConnectionTimeOut	60
ConnectorPhaseRotation	NotApplicable
ConnectorPhaseRotationMaxLength	Not Applicable – NA
GetConfigurationMaxKeys	256
HeartbeatInterval	30
LightIntensity	Not Applicable – NA
LocalAuthorizeOffline	False
LocalPreAuthorize	False
MaxEnergyOnInvalidId	Not Applicable – NA
MessageTimeout	Not Applicable – NA
MeterValuesAlignedData	Energy.Active.Import.Register
MeterValuesAlignedDataMaxLength	Not Applicable – NA
MeterValuesSampledData	Voltage;Current.Offer;Current.Import
MeterValuesSampledDataMaxLength	Not Applicable – NA
MeterValueSampleInterval	10
MinimumStatusDuration	Not Applicable – NA
NumberOfConnectors	2
ResetRetries	0
StopTransactionMaxMeterValues	Not Applicable – NA
StopTransactionOnEVSideDisconnect	Not Applicable – NA
StopTransactionOnInvalidId	True
StopTxnAlignedData	Energy.Active.Import.Register
StopTxnAlignedDataMaxLength	Not Applicable – NA
StopTxnSampledData	Voltage;Current.Offer;Current.Import
StopTxnSampledDataMaxLength	Not Applicable – NA
SupportedFeatureProfiles	Core
SupportedFeatureProfilesMaxLength	Not Applicable – NA
TransactionMessageAttempts	4294967295
TransactionMessageRetryInterval	5
UnlockConnectorOnEVSideDisconnect	True
WebSocketPingInterval	Not Applicable – NA
LocalAuthListEnabled	Not Applicable – NA
LocalAuthListMaxLength	Not Applicable – NA
SendLocalListMaxLength	Not Applicable – NA
ReserveConnectorZeroSupported	Not Applicable – NA
ChargeProfileMaxStackLevel	Not Applicable – NA
ChargingScheduleAllowedChargingRateUni	Not Applicable – NA
ChargingScheduleMaxPeriods	Not Applicable – NA
ConnectorSwitch3to1PhaseSupported	Not Applicable – NA
MaxChargingProfilesInstalled	Not Applicable – NA
SupportedFileTransferProtocols	Not Applicable – NA

Statement of Approval

Vendor		Date: December, 30th, 2022
Name	Matthieu Loos	Signature
Company	Flo	
Department	Software	*Matthieu Loos*
Position	Principal Technical Advisor	
Location	Québec, Canada	

Test laboratory		Date: December, 30th, 2022
Name	Gonzalo Casado	Signature
Company	DEKRA Certification, Inc	
Department	Connectivity Services	
Position	Lab Manager	
Location	Sterling, VA	